	Construction Indire	ects																												
	Section A: Construction Equipment, (Generally mobile equipment exceeding \$1,500)																													
	Calendar Year		0	0	1			1	2			2	3			3	4			4	5			5	6		6	7		
WBS	Quarter		3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3 4	1	2	3
	Description	Qrtrly Cost per unit	Start Site, 10-01	Excav PTB, 12-15	PTB Mat, 02-15 HLW Mat, 03-30	-AW Mat, 05-01													PTB Compl, 9-30		HLW Compl, 4-01		-AW Compl 8-30		Temp Facilities DeMob, 3-09				Total units	Total cost, \$ x 1,000
	Sedan -Project Constr. Mgr.	\$1,548.23	1	1	1	1 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			24	
	sedan - Asst. Mgr. Proj. Contrls.	\$1,548.23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				23	
	sedan-ES&H Mgr.	\$1,548,23	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			24	
	sedan- QA/QC Mgr.	\$1,548.23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					22	
	sedan Constr. Supp. Mgr.	\$1,548.23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			24	
	sedan - Constr. Ops. Mgr.	\$1,548.23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				23	\$35.
	Total sedans		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	3	0	0		
	.5T Pickup Trk - Proj. Controls	\$1,400.78	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					22	\$30.
	.5T Pickup Trk - ES&H	\$1,400.78	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				23	\$32.2
	.5T Pickup Trk - QA/QC	\$1,400.78	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1						36	\$50.4
	.5T Pickup Trk - Pro/Subcntrs.	\$1,400.78	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						21	
	.5T Pickup Trk - Asst.Mgr.Facil.	\$1,400.78	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			24	\$33.
	.5T Pickup Trk - Fac/Warehouse	\$1,400.78		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					21	
	.5T Pickup Trk - Fac/CM-PM	\$1,400.78	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						21	\$29.
	.5T Pickup Trk - Site Security	\$1,400.78	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				23	\$32.2
	.5T Pickup Trk - Conc. Btch.Plnt	\$1,400.78		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1										16	
	.5T Pickup Trk - Rebar Fab.	\$1,400.78		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1										16	\$22.4
	.5T Pickup Trk - Carp. Shop	\$1,400.78		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1										16	\$22.4
	.5T Pickup Trk - Pipe Shop	\$1,400.78		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							19	\$26.0
	.5T Pickup Trk - Maint. Shop	\$1,400.78	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					22	\$30.
	.5T Pickup Trk - Crane/Rigging	\$1,400.78		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						20	\$28.
	.5T Pickup Trk - Fld. Engrs.	\$1,400.78	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1						31	\$43.
	.5T Pickup Trk - Survey truck	\$1,400.78	1	1	1	2	2	2	2	_	3	3	3	3		3	3	3	3	2	2	1	1						47	
	.5T Pickup Trk - Doc. Control	\$1,400.78	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			24	
	.5T Pickup Trk - BOF Superintnd	\$1,400.78	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			30	\$42.
	.5T Pickup Trk - Asst. Mgr. PTB	\$1,400.78	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1								28	\$39.
	.5T Pickup Trk - Asst. Mgr. HLW	\$1,400.78	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						21	\$29.
	.5T Pickup Trk - Asst. Mgr. LAW	\$1,400.78	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				23	\$32.
	Total .5T Pickup Trks.		15	22	22	23	24	24	26	26	26	26	26	26	26	26	26	25	24	20	20	17	16	9	6	3				
	.75T Pickup Trk., Emergency																			T			Т	П						
	Response	\$1,695.68		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						20	\$33
	Ambulance	\$4,423.50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					22	\$97
	9 passenger vans	\$1,800.00	1	1	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	1	1	1					50	\$90
	golf carts - Proj. Cntrls	\$300.00			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								17	
	golf carts - ES&H - Envir.	\$300.00				1	1	1	1	1	1	1	1	1	1	1	1	1	1										13	

	Construction Indire	ects																												
	Section A: Construction Equipment, (Generally mobile equipment exceeding \$1,500)																													
	Calendar Year		0	0	1			1	2			2	3			3	4			4	5			5	6		6	7		
WBS	Quarter		3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2 ;	4	1	2	3
	Description	Qrtrly Cost per unit	Start Site, 10-01	Excav PTB, 12-15	PTB Mat, 02-15 HLW Mat, 03-30	AW Mat, 05-01													TB Compl, 9-30		HLW Compl, 4-01		-AW Compl 8-30		Temp Facilities DeMob, 3-09				Total units	Total cost, 3
	golf carts - ES&H- Safety	\$300.00	0)	Ш	ш 2	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1									22	
	golf carts - QA/QC Insp.	\$300.00		1	1.6	2	2	2.5	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1						47.1	\$14.
	golf carts - QA/QC -Welding	\$300.00		· '	1.0	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	- 1							24	\$7.
	golf carts - Business, Timekeeper	\$300.00			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	- 1								16	
	golf carts - Pro/Expediter	\$300.00			·		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							16	
	golf carts - Fac/Warehouse	\$300.00					1	1	1	1	1	1	1	1	1	1	1	1	1	- 1	- 1	- 1							13	
	golf carts - Fac/CM-PM	\$300.00					0.5	0.5	1	1	1	1	1	1	1	1	1	1	1	0.5	0.5	0.5	0.5						14	\$4.
	golf carts - Tool Rooms	\$300.00					0.5	1.5	2	2	2	2	2	2	2	2	2	2	2	1.5	0.5	0.5							27	
	golf carts - Rebar Fab	\$300.00		1	2	2	3	3	3	3	3	2	2	2	1	1	1		-1	1.0	0.0	0.0	0.0						29	\$8.
	golf carts - Carp. Shop	\$300.00		- 1	1	2	3	3	3	3	3	3	2	2	1	1													28	\$8.4
	golf cart - Pipe Fab	\$300.00		l '	· '	1	1	1.5	2	3	3	3	3	3	3	3	3	2	2	2	2	1	1						39.5	
	golf carts - Maint. Shop	\$300.00					1	1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	- '							15	
	golf carts - Field Engrs.	\$300.00		1	1	1	2	3	3	3	4	4	4	5	5	5	5	5	4	4	3	3	2	2	1				70	\$21.
	golf carts - Survey crew	\$300.00			1	1	2	2	2	2	2	2	1	1	1	1	1	1	1		Ĭ	-							21	\$6.
	golf carts - Doc. Control	\$300.00				1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1						27	\$8.
	golf carts - BOF Construction	\$300.00			1	1	1	1	1	1										- 1	- 1	- 1							6	
	golf carts - PTB Construction	\$300.00			<u>'</u>	1	1	1	2	2	3	3	3	3	3	3	3	3	2										33	\$9.
	golf carts - HLW Construction	\$300.00					1	1	2	2	2	3	3	3	3	3	2	2	2	1									30	\$9.
	golf carts - I/LW Construction	\$300.00		1			1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1						1	24	
	Total Golf Carts	\$500.00	n	1	9.6	16	27	30	35	37	40	40	38	39	37	36	34	31	27	19	14	9	6	2	1			1		Ψ7
	Total Pieces Ground Trans. Units		23	34		48		63	70	72		75	73	74	72	71	69	65	60	48	43	34	30	18	12	6		1		
	Tanio. Office			۱ű	70.0	- 10	- 55	30	, 0		. 5					- 1	30		- 50		-10	31	- 33	- 10				1		
	Motor Grader, Cat 12E	\$12,557.52		1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1		1	30	\$376.
	Backhoe/Front Loader, Case 580	\$7,085.61		1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1		1	38	\$269.
	Caterpillar 330L, Trac-hoe, 2.5 cy	\$42.115.50		1	1	2	2	2	1	1	-		-	-				_	-1			- 1			<u> </u>			1	10	-
	12 cu.yd. Dump Truck	\$4,792.13		2	2	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1		1	56	\$268.
	Vibratory Roller, 10,000 lb	\$3,833.70		1	1	1	1	1	1	1	1	Ť	-	-	-	- 1	-		1									1	8	-
	Compactor, 30" Walk behind	\$3,538.80		1	1	1	1	1	1	1	1	1	1						- †									1	10	
	Tampers, Whacker	\$812.63		2	4	4	4	4	2	2	2	Ť							- †									1	24	\$19.
	Flatbed Trk w/Liftgate, 1 ton	\$1,876.43		1	2	3	5	5	5	5	5	5	5	5	5	5	5	5	3	3	3	2	2	2	1			1	82	\$153.
	Flatbed Trk w/Liftgate, 2.5 ton	\$2,556.08	l	•		2	4	4	4	4	4	4	4	4	4	4	4	2	2	1	1	1						1	53	
	Flatbed Trk With 10,000 lb. Boom	\$6,750.00			2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	1	1					1	45	\$303.
	Water Truck, 3500 gal. w/spaybar	\$5,632.59			1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1		1	38	\$214
	Lube and Fuel Truck	\$5,400.00		1	1	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1		- 1						1	27	\$145.
	Farm Tractor, 55 Hp. W/pintle hook	\$3,227.40		f '	2	2	4	4	4	4	4	4	4	4	4	4	2	2	1	1	1	1	1					1	53	\$171
	Flatdeck trailer 40 ft., 40,000 Lb	\$2,344.46			4	10	20	30	35	35		35	35	35	30	25	20	15	10	4	-	4	- 1					+	390	\$914

	Construction Indire	ects																												
	Section A: Construction Equipment, (Generally mobile equipment exceeding \$1,500)																													
	Calendar Year		0	0	1			1	2			2	3			3	4			4	5			5	6		6	7		
WBS	Quarter		3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2 3	4	1	2	3
	Provincian.	Qrtrly Cost	Start Site, 10-01	Excav PTB, 12-15	PTB Mat, 02-15 HLW Mat, 03-30	AW Mat, 05-01													TB Compl, 9-30		HLW Compl, 4-01		AW Compl 8-30		Temp Facilities DeMob, 3-09				Total	Total cost
	Description Grove Carrydeck Crane, 8 Ton	per unit \$10,962.68	S	Ш	Δ≥		2	2	2	3	3	3	3	3	3	3	3	3	٦	2	エ	1		- 1	⊢□				units 43	x 1,000 \$47
	Grove RT58, 15 ton	\$10,962.66		0.6	2	 	5	5	5	5	5	5	5				4	4		2	2	2		2	2			+	77.6	\$1,00
	Grove RT875, 75 ton	\$44,880.75		0.0	1	2	3	3	3	3	3	3	3				3	3	3	3	2	2		1	1				53	\$2,37
	Grove 890, 100 Ton	\$52,767.99		1	2	3	3	3	3	3	5	5	5				4	4	4	2	2	2		1	1				70	\$3,69
	Manitowoc 3900W, 140 ton	\$50,178.15		1	2	3	3	3	3	3	3	3	3	3			3	2	2	2	2	1			- '				49	\$2.45
	American 900, 200 ton crane, docks	\$72,324.23					1	1	1	1	1	1	1	1	1	1	1	1	1										13	\$94
	Manitowoc 4100W, 225 Ton	\$72,324.23					1	2	2	-	2	2	2			2	2	2	2	2	2	2	1						32	\$2,31
	Liebherr 350 Tower Cranes	\$38,400.00			1	5	9	9	9	9	9	9	9				3	2	2										98	\$3,76
	10,000 lb Pedestal cranes	\$10,425.00			·			3	6	-	6	6	6			-	-												42	\$43
	Crane mats, 8' x30' std.	\$300.00			. 8	12	12	12	12	12	12	12	12				8	8	8	8	8	6	6						192	\$5
	Crane test weights, Concrete, 250t	\$1,500.00		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								18	\$2
	Heavy transport trailer, 200t	\$7,918.07			·		1	1	1	1	1	1	1	1	1	1	- 1	-	- 1		•								10	\$7
	Heavy transport trailers 100 ton	\$5,278.71		2	2	2	4	4	4	4	4	4	4																34	\$17
	Lo-boy Heavy Equipment Trailer	\$3,066.96	1	2	2	2	2	2	2		2	2	2	2	2	1	1	1	1	1	1	1	1						33	\$10
	5th Wheel Tractor, road legal	\$8,935.47	1	2	2	2	2	2	2	2	2	2	2	2			1	1	1	1	1	1	1						33	\$29
	Forklift, 10 Ton , rough terrain	\$8,932.01	•	1	2	2	2	2	2		2	2	2				1	1	1	1	1	1							31	\$27
	Forklift, 8,000 Lb. Rough terrain	\$5,709.42	1	1	2	2	3	3	3	3	3	3	3				3	3	3	2	2	1		1					52	\$29
	Forklifts, 6000 lb., warehouse	\$3,943.62	•			2	4	4	4	4	4	4	4	4	-		4	42	2	2	2	1							96	\$37
	JLG manlift, 30 foot boom	\$6,062.58		2	4	6	6	4	2		2	2	2				1	1	1	1	1	1		1	1				47	\$28
	JLG manlift, 90 foot boom	\$20,336.13			1	1	2	2	4	4	6	6	6				4	2	2		1	1		·	<u> </u>				56	\$1,13
	JLG manlift, 140 foot boom	\$30,000.00				l '		2	2	4	4	6	6				3	1	1										44	\$1,32
	Scissor Lifts, 30" x 72 "	\$1,458.27				2	6	9	12	-	18	18	18				-	15	15	15	12	12	8	2					246	\$35
	1,000 watt mobile light towers	\$675.00	4	8	8	8	6	4	4	2	2	2	2	2			2	2											60	\$4
	15 Kw gen set, portable	\$1,428.81	1	2	3	4	4	4	2		2	1	1	1	_	_	-												27	\$3
	7.5 Kw gen set, portable	\$471.36	Ė	3	3	6	6	3			-		·																21	9
	150 Kw Power Plant, diesel	\$3,358.44		1	1	2	2	2	1																				9	\$3
	400 amp Welders, portable	\$940.28	1	2	4	6	6	6	4	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1				49	\$
	200 amp Welders, 8 pacs	\$1,373.10		ĺ	1	2	4	8	12		24	30	30	30		24	24	24	18	18	18	12		6	6				350	\$4
	Welding Equipment, 1 unit = \$3K/m	\$9,000.00				2	3	5	5		7	7	7				3	3	2	2	2	1							74	\$6
	250 cfm compressors, portable	\$3,227.49	3	6	6	8	8	4	2		2	2	2		-		2	2	2	2	2	2	2	2	1				68	\$2
	1,200 cfm compressors	\$12,125.30			1	3	4	4	4	4	4	4	2			1						_							34	\$4
	Cretercrane concrete conveyors	\$8,997.98			3	5	5	3	2	1	$\dashv$	- 1		_				-											19	\$1
	Concrete pumps, 200 cy/hr	\$39,372.48			3	4	6	8	8	-	8	8	6	6	3	1													69	\$2,7
	Concrete pump slickline,1 unit=600'	\$1,800.00			3	4	6	8	8	8	8	8	6																69	\$1:
	Concrete Trowel Machines, 42"	\$580.32			4	6	9	9	9	9	8	8	6																80	\$4
	Trash pumps, 3"	\$3,212.69		3	3	3	3	3	3		3	3	1	1											1			1	30	\$

	Construction Indire	ects																													
	Section A: Construction Equipment, (Generally mobile equipment exceeding \$1,500)																														
	Calendar Year		0	0	1			1	2			2	3			3	4			4	5			5	6			6	7		
WBS	Quarter		3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1 2		3
	Description	Qrtrly Cost per unit	Start Site, 10-01	Excav PTB, 12-15	PTB Mat, 02-15 HLW Mat, 03-30	LAW Mat, 05-01													PTB Compl, 9-30		HLW Compl, 4-01		LAW Compl 8-30		Temp Facilities DeMob, 3-09				Tot uni		cost, \$
	Tool Trailers	\$619.29		2	4	8	8		8	8	8	8	8	8	8	8	8	6	6	4	4	4	4	2	1				1:	34	\$83.0
	Scaffolding, 1 unit = \$1K/month	\$3,000.00		5	10	15		40	40	40	40	40	30	30	30		30	30	30	25	20	15	15	5							,635.0
	Shoring, 1 unit = \$5K/month	\$15,000.00				2	4	4	4	4	4	4	3	3	3	2	2	1	1												\$615.0
	Wntr Ht Equip, temp., 1 unit = \$5K/mo	\$15,000.00		2	2			4	4			4	4																	_	\$300.0
																														\$34	1,752.
																															—

Construction Indir	rects																																						
Section B: Small Tools and Consummables (identified groupings and \$/mnhr of direct labor based on Initial Craft Manpower Estimate (ICME)																																							
Calendar Year	0	0	1			1	2			2	3			3	4			4	5			5				6 7	,			7	8		8	_				Months	Hours B
Quarter	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		2	3	4 1	2		3 4	4	1 2	2 3	4	1	2	3	4	3 mo/qrtr	158 hr/mo \$
Description	Start Site, 10-01	Excav PTB, 12-15	PTB Mat, 02-15 HLW Mat, 03-30	LAW Mat, 05-01													PTB Compl, 9-30	:	HLW Compl, 4-01	:	LAW Compl 8-30		Temp Facilities DeMob, 3-				Total Small and Consum for craft labor construction	nables or											
Miscellaneous site civil support, ICME headcount		5			7	7	8	8 8	8	8 8	8	8	g	. 8		8	7	7 5		5	5	5	2 1	10	3														
Quarterly Cost =ICME x 3 x 165 x		J	Ţ,			1		<u>-1                                    </u>		-1 0					<u> </u>	- 1		1		1	1	1	<u> </u>	1	<u> </u>		1		1		I					1	1		
\$0.50/mnhr.  Civil Construction - concrete forming, reinforcing, placing, strip and finish,		\$1,238	\$1,238	\$1,73	3 \$1,73	3 \$1,98	\$1,98	0 \$1,980	0 \$1,98	0 \$1,980	\$1,980	\$1,980	\$1,980	\$1,980	\$1,98	0 \$1,73	3 \$1,73	33 \$1,238	\$1,23	38 \$1,238	3 \$1,23	38 \$49	5 \$2,47	75 \$	743														
ICME headcount		40	81	12	0 20	0 35	60 45	60 450	35	0 325	325	280	125	50	)																								
Quarterly Cost =ICME x 3 x 165 x \$0.80/mnhr.		\$15.840	\$31,680	\$47,52	\$79.20	0 \$138.60	0 \$178.20	n \$178.200	n \$138.60	0 \$128,700	\$128 700	\$110.880	\$49 500	\$19.800	\$	0 \$	n \$	so so		50 \$0	) !	\$0 \$	0 9	60	\$0														
Civil Construction - structural steel		ψ10,040	ψ01,000	υ ψτι,3 <u>ε</u>	φ/ 3,20	υ ψ130,00	\$170,20	ο ψ170, <u>2</u> 00	σ φ130,00	0 \$120,700	\$120,700	ψ110,000	ψ+3,300	ψ13,000	, ,	υ ψ	· •	μο φι	1	φ.	,	φο			ΨΟ														
erect with decking, ICME headcount  Quarterly Cost =ICME x 3 x 165 x						1	5 2	25 80	) 14	0 180	180	100	80	80	7	0 3	0																						
\$0.50/mnhr.		\$0	\$1	5	0 \$	0 \$3,71	3 \$6,18	8 \$19,800	34,65	0 \$44,550	\$44,550	\$24,750	\$19,800	\$19,800	\$17,32	5 \$7,42	5 \$	\$0 \$0	\$	\$0 \$0	) :	\$0 \$	0 \$	60	\$0														
Mechanical equipment installation -																																							
boilermaker, millwrights, sheetmetal, ICME headcount			15	5 2	5 6	0 12	20 16	60 160	) 18	0 180	170	160	160	120	10	0 10	0 6	50 40	1	10																			
Quarterly Cost =ICME x 3 x 165 x																																							
60.70/mnhr. Mechanical piping - pipefitters, ICME		\$0	\$5,198	\$8,66	3 \$20,79	0 \$41,58	55,44	0 \$55,440	\$62,37	0 \$62,370	\$58,905	\$55,440	\$55,440	\$41,580	\$34,65	0 \$34,65	0 \$20,79	90 \$13,860	\$3,46	S5 \$0	) ;	\$0 \$	0 \$	60	\$0														
neadcount			20	5	0 12	0 22	20 31	0 340	35	0 360	360	360	360	360	33	0 30	0 25	50 180	9	90 80	) ;	70 2	0																
Quarterly Cost =ICME x 3 x 165 x			#7 00s	040.00	0 647.50	0 607.40	0 6400 70			0 6440500	64.40.500	64 40 500	64.40.500	04.40.500	6400.00	0 6440.00		674 000	005.04	f04 604	607.7				•														
\$0.80/mnhr. Mechanical I&C tubing, ICME		\$0	\$7,920	φ19,80	υ <del>-</del> φ47,52	∪	.u \$122,76	i∪ ֆ134,64U	<i>υ</i> φι <b>3</b> 8,60	0 \$142,560	φ14∠,560	φ14∠,5bU	φ14∠,56Ü	a14∠,560	\$13U,08	υ φι18,800	u a99,00	or ⇒/1,∠80	\$35,64	ъо ф31,680	\$27,72	20 \$7,92	1	pu	\$0														
headcount						2	20 4	15 65	5 11	0 120	130	140	150	150	16	0 15	0 14	10 90	8	30 70	) (	65 1	5																
Quarterly Cost =ICME x 3 x 165 x 60.80/mnhr.		\$0	\$i	o \$	0 \$	0 \$7,92	0 \$17.82	0 \$25.740	\$43.56	0 \$47,520	\$51,480	\$55,440	\$59.400	\$59,400	\$63.36	0 \$59,40	0 \$55.44	10 \$35,640	\$31,68	30 \$27.720	\$25,74	40 \$5,94	0 9	60	\$0														
Electrical - power, ICME headcount		20	3	5 6		0 18														00 120		00 4	0																
Quarterly Cost =ICME x 3 x 165 x \$0.90/mnhr.		£0.010	\$15,593	n for 70	0 005.04	0 600 40	0 6420.20	E \$455.005	E \$460.00	0 \$167,063	£474 E40	£470.200	£470.000	6470 200	£460.20	0 6460 20	0 6430.40	£420.205	\$89,10	00 PE2 460	\$44,55	50 \$17,82		20	\$0														
Electrical - I&C, ICME headcount		φ0,910	φ10,050	φ20,73	\$30,04	1		10 90										70 120,280	11	10 75		40 317,02	0	, o	Ψ														
Quarterly Cost =ICME x 3 x 165 x			_																																				
\$0.95/mnhr.  Architectural - carps,drywall, paint &		\$0	\$1	5	5	0 \$7,05	4 \$18,81	0 \$42,323	3 \$56,43	0 \$70,538	\$84,645	\$89,348	\$94,050	\$94,050	\$94,05	0 \$94,05	0 \$79,94	\$56,430	\$51,72	28 \$35,269	\$18,8	10 \$14,10	8 3	5O	\$0														
finish, ICME headcount Quarterly Cost =ICME x 3 x 165 x								15	5 4	0 60	70	80	90	100	10	0 9	0 7	75 70	6	65 40	) :	25 1:	5																
\$1.00/mnhr		\$0	\$(	\$	0 \$	0 \$	so \$	0 \$7,425	5 \$19,80	0 \$29,700	\$34,650	\$39,600	\$44,550	\$49,500	\$49,50	0 \$44,55	0 \$37,12	25 \$34,650	\$32,17	75 \$19,800	\$12,37	75 \$7,42	5 \$	60	\$0														
Total Quarterly ICME Craft Headcount		e.	45	5 26	2 46	7 92	98 420	18 1550	3 105	8 1758	1000	1718	1570	1.400	194	8 123	7 101	12 775	Fe	50 390		05 12	2 4	10	3														
Total Quarterly Cost for Small Tools	+ - 1	65	15	26	46	1 92	:0 130	o 1558	5 165	o 1/58	1808	1/18	15/3	1468	134	o 123	r 101	12 //5	) 56	ou 390	<i>y</i> 31	uo <u>r</u> 12	<u> </u>	IU	3									1					
and Consumables		\$25,988	\$61,628	\$104.44	\$184.88	3 \$368.15	6 \$521.48	3 \$621.473	3 \$656,37	0 \$694,980	\$718,988	\$698,198	\$645,480	\$606.870	\$560.83	5 \$520.98	8 \$432.13	\$333.383	\$245.02	25 \$169,166	\$130.43	33 \$53,70	8 \$2,47	75 \$	743		\$8.3	357,828											

lant Facilities and Other																																		
ndirect Costs																																		
Construction offices, labor nange & lunch,																																		
onstruction services																																		l
acilities, telephone, radios																																		l
Calendar Year		0	0	1			1 :	2		2	3		3	3 4			4	5			5 6	i	6 7			7	8		8	9			Months	
Quarter		3	4	1	2	3	4	1 2	3	4	1	2 ;	3 4	1 1	2	3	4	1	2	3	4 1	2	3 4 1	2	3	4	1 2	3	4	1	2 3	4	3 mo/qrtr	158
				w Mat																	lob, 3													l
		5	2-15	15 HL	2											30		5		30	s DelV													ĺ
		e, 10-	TB, 1	t, 02-	it, 05-											mpl, 9		mpl, 4		mpl 8	scilitie													1
	Ref.	art Site	cav P	B Ma	W Ma											Š 9		% %		8	mp Fg													
000 per quarter) nmed.Temp.Constr. Fac.,	Page	Š	ŭ	F 8	5			1		1					1	T =		로		≤	je j	8					1	1	1			1		H
2.00/Sq.Ft./month x1,000	C-1		\$23.3	\$23.3	\$23.3																			\$69.	9									
bb and De-mob facilities, Labor, 's/quarter x 1,000	C-2		\$121			\$121																		\$242.	)									
onstruction Guardhouse with rnstiles, office and control																																		
uipment, \$ x 1,000	C-7		\$254.7																					\$254.	7									
ortable Secure Storage, Conex eel box, \$ x 1,000	C-3		\$0.9	\$4.0	\$5.0	\$5.6	\$4.8	\$4.8	\$4.8    \$4.8	\$4.8	\$4.8	\$4.8	\$4.8	\$4.8 \$	4.8 \$4	.8 \$4.8	8 \$4.8	\$2.9	\$2.9	\$2.9	\$1.4	\$1.4 \$1.4		\$90.	a									
onstruction Office Building,			50.0	<b>\$</b> 1.5	ψ0.5	+3.0			, ¥1.0	ψ5	Ţo	Ţ <b>o</b>			- 47	. Ψ	Ųo	<b>**</b>						ψ30.										
timated 30,000 sf @ \$105/sf mp sum split 2 quarters, \$ x 1,000	C-4			\$1,575.0	\$1 575 A																			\$3,150.	1									
erflow construction office space,	0-4			\$1,373.0	\$1,373.0																			φ3,130.	,									
odular units, install 9,800 sf 5th arter, 7,840 sf 9th quarter @																																		
2.00/sf/month rent x 1,000,																																		
,,,	C-4						58.8	58.8 5	58.8 58.8	105.8	105.8	105.8 1	105.8 1	05.8 10	5.8 105	.8 105.8	58.8	58.8	58.8	58.8				\$1,316.	3									
st Aid and Ambulance Facility, ludes specialty items, \$ x 1,000	C-8			\$186.7																				\$186.	7									
remans Office trailer, \$ x 1,000	C-9	\$1.1	\$3.2	\$5.4	\$8.6	\$13.0	\$13.0	\$13.0 \$1	13.0 \$13.0			\$13.0			3.0 \$13	.0 \$10.8	\$10.8	\$10.8	\$7.6	\$7.6	\$4.3			\$334.	7									
aft Change/Lunch space, \$x1,000 trine Trailers, \$ x1000	C-10 C-11		\$107.2	\$1,453.5 \$108.4	\$1,453.5 \$163.2	\$165.0	\$113.2 \$1	114.4 \$	\$92.4 \$8.4 \$8.4		\$92.4 \$8.4	\$92.4 \$ \$8.4			8.4 \$8	.4 \$8.4	4 \$6.0	\$4.8	\$1.2					\$3,461. \$867.										
ortable Toilets, \$ x 1,000	C-5		\$1.1	\$2.1	\$3.8				22.1 \$23.1			\$24.2			8.9 \$17			\$8.4		\$4.2	2,1	\$0.1 \$0.1		\$289.										
emporary Fencing, 8,000 lf, for nced construction areas, purchase																																		
\$18/If and move as required, \$ x																																		
arehouse, 37,500 sf, steel frame			\$144																					\$144.	)									
concrete slab w/shelving																																		
\$120/sf, Cost split first 2 uarters, \$ x 1,000				\$2,250	\$2,250																			\$4,500.	)									
ant Equipment and Commodities				V-,																				* 1,000										
utdoor Storage and Laydown area, x1,000	C-14		\$171.8	\$171.7																				\$343.	5									
ool Cribs, Calibrated/signout tools,	0		ψ111.0	<b>V</b> 11111																				φο το.	,									
e enhanced Conex box which cludes counter chair and electric																																		
at/cool at \$150/mo. rent with																																		
livery/recovery of \$200 in first onth, \$x1,000			\$2.0	\$3.3	\$4.7	\$4.1	¢./ 1	¢/1 ^	\$4.1 \$4.1	\$4.1	£4.4	\$4.1	\$A 1	¢4 1	4.1 \$4.	.1 \$4.1	1 \$4.1	\$4.1	\$4.1	\$A 1				\$78.	3									
tellite Storage, HazMat.	C-12		φ∠.U	\$3.3 \$33.4	\$4.7	φ <del>4</del> . Ι	φ4.1	ψ-1.1 3	<del>, 1 − 1 − 1 − 1 − 1 − 1 − 1 − 1 − 1 − 1 </del>	<b>Ф</b> 4.1	φ <del>4</del> .1	φ4.1	Ψ*. I	Ψ-1.1	¬.ı ⊅4.	\$4.1	φ4.1	ф4.1	φ <del>4</del> .1	φ <del>-1</del> . Ι				\$33.										
	C-13 C-13			\$20.0 \$75.0																				\$20. \$75.										
el Storage and Dispensing rosion and Dust Control, \$ x 1000	C-13			J.61¢	\$66.3	\$66.3	\$66.3	\$66.3 \$6	66.3 \$66.3	\$66.3	\$66.3	\$66.3	\$66.3 \$	66.3 \$6	6.3 \$66	.3 \$66.3	3 \$66.3	\$66.3	\$66.3	\$66.3				\$75. \$1,193.										
mporary Roads, Parking &	Ce		¢105.5	\$10F F																				6051										
nstruction Areas ns and TrafficControl	C-6 C-15		\$125.5 \$30.0	\$125.5																				\$251. \$30.										
eather Protection intenance Shop (vehicles/mech)	C-15 C-16		\$37.0	\$34.3	65.0			137.0	te 0		\$137.0 \$5.0	¢F O		68.5 \$3		0 00		e0.0	60.0	\$2.0	¢1 0	£1.0		\$722. \$242										
ntenance Shop (vehicles/mech) Shop, Carpenters	C-16 C-17		\$131.5 \$126.5	\$131.5 \$126.5	\$5.0 \$5.0	\$5.0 \$5.0			\$5.0 \$5.0 \$5.0 \$5.0		\$5.0 \$5.0	\$5.0 \$5.0			5.0 \$3.	.∪ \$3.0	3.0	<b>\$3.</b> U	\$3.0	φ3.U	φ1.U	pi.U		\$343. \$304.										
	C-18		\$264.4	\$264.4	¢474.5	¢174 5	¢F O	<b>SEC</b> -	te 0	65.0	ØE ^	¢F O	<b>9</b> E 0	¢	50 A-	0								\$528.										
Shop, Strucutal Steel Shop, Piping Assemblies	C-19 C-20			\$296.5	\$171.5 \$296.5	\$171.5 \$5.0			\$5.0 \$5.0 \$5.0 \$5.0		\$5.0 \$5.0				5.0 \$3. 5.0 \$5.		\$3.0	\$3.0	\$2.0					\$396. \$664.										
·	C-21				\$151.5				\$5.0 \$5.0		\$5.0				5.0 \$5			\$5.0		\$1.0				\$377.										
b Shop, HVAC b Shop, Painters	C-22 C-23					\$196.5			\$3.0 \$3.0 \$9.0 \$9.0		\$3.0 \$9.0				3.0 \$3. 9.0 \$9.			\$3.0 \$6.0	\$1.0 \$3.0	\$1.0				\$433. \$559.										
	C-24			\$73.4	\$1.5	\$1.5			\$1.5 \$1.5			\$1.5			1.5 \$1.			\$1.5	\$1.5		\$1.5			\$101.										
mporary electric, water & air lines immunication station, with base	C-25		\$27.4	\$54.7	\$54.7	\$54.7	\$109.4 \$1	109.4 \$10	09.4 \$164.2	\$164.2	\$164.2	\$164.2 \$1	164.2 \$1	b4.2 \$16	4.2 \$164	.∠ \$164.2	a \$109.4	\$109.4	\$54.7	\$27.4				\$2,298.	<del>1</del>									
lio, pole and antenna	C-26			\$7.9																				\$7.	9									
andheld radios, 4 channel with ttery chargers	C-26		\$4.0	\$8.0	\$8.0	\$16.0	\$40.0	\$32.0 \$2	20.0 \$8.0	\$4.0														\$140.	)									
	C-27		\$10.0	\$12.7	\$12.6	\$15.2			18.9 \$19.9		\$21.2	\$21.6	\$21.6 \$	22.8 \$2	2.4 \$22	.2 \$19.2	\$16.2	\$13.7	\$11.4	\$9.6	\$6.0	\$3.9		\$356.										
	from DOE	1												1							1		1			1							1	

Total Plant Facilities and other		
Labor related costs, \$ x 1,000	\$1.1 \$1,585.5 \$7,047.2 \$6,259.7 \$1,003.5 \$1,025.6 \$832.5 \$364.2 \$501.4 \$683.8 \$789.8 \$543.2 \$539.1 \$607.7 \$475.6 \$436.1 \$422.8 \$309.5 \$300.6 \$226.7 \$187.3 \$14.3 \$6.4 \$1.5 \$24,165.2	
Edboi felated costs, \$\psi \times 1,000	\$1.1 \$1,000.0 \$1,047.2 \$0,00.0 \$1,000.0	 

Section D: Support																																									
Labor (janitorial,																																									
maintenance, preservation)																																									
maintenance, preservation,																																									
Calendar Year	r	0	0	1			1	2			2	3			3	4			4	5			5	6		6	7			7	8			8	9			9	Mont	hs Ho	ours E
Quarter	r	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3 4	1	2	3	4	1	2	3	4	1	2	3	4	3 mo/	qrtr 158 I	hr/mo
																								3																	
			>																					DeMob,																	
		5	2-15 5 HI		5													30		Þ		30		De De																	
		9	3, 12		950													<del>_</del>		4,		86		ities																	
	Qrtrly	<u>e</u>	PTE	3.30	lat,													d d		l W		, di		Facili																	
	Cost per	Ħ	Sa B	it O:	≥													о В		≥ .		≥ .		emp 9																	
Description	unit	ξ	E E	ž	≤													Б		로		≤		Те 09			<u> </u>							,							
Janitorial labor - Laborer to perform																																									
office cleanup, dusting, trash bucket																																									
emptying, water cooler bottle																																									
replacement, latrine trailer cleaning.																																									
Composite crew of 4 laborers, 1	\$152/hr x																																								
	520 hrs per																																								
are in multiples of one composite	quarter = \$79,040																																								
	\$79,040	-	0.3	1.5 2	2.0	2.0	2.5	3.0	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.5	3.0	3.0	2.0	2.0	2.0			69.8		<u> </u>			<u> </u>	<u> </u>		<u> </u>				_	
Janitorial costs = units x quarterly cost column, \$ x 1,000			e	1100	(FO 4	4504 0	£407.6	6007.4	£076.6	\$316.2	£246.2	£246.2	6246.2	6246.2	6246.2	£246.2	£246.2	£246.0	\$076 C	£276.6	£227.4	C227 4	C1E0 1	£450.4	£150.1			\$5,517.0													
ost column, \$ x 1,000			\$23.7	3118.6	158.11 \$	158.1	\$197.6	\$237.1	\$276.6	\$316.2	\$316.2	\$316.2	\$316.2	\$316.2	\$316.2	\$316.2	\$316.2	\$316.2	\$276.6	\$276.6	\$237.1	\$237.1	\$158.1	\$158.1	\$158.1			\$5,517.0													
Construction Facilities maintenance,																																									
replace bulbs, failed appliances,																																									
water, HVAC, windows, doors,																																									
latches etc.,etc Use composite	\$185/hr x																																								
crew, carpenter, electrician,	520 hrs.																																								
pipefitter, HVAC, 0.5 ironworker.	Per quarter																																								
0.25 teamster = \$185/hr.	= \$96,200			0.5	).5	1.0	1.0	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.0	1.0	1.0	0.5	0.5	0.5						24.0													
Construction Facilities maintenance	****																																								
costs = units x quarterly cost																																									
column, \$ x 1,000			\$0.0	\$48.1	648.1	\$96.2	\$96.2	\$144.3	\$144.3	\$192.4	\$192.4	\$192.4	\$192.4	\$192.4	\$192.4	\$144.3	\$96.2	\$96.2	\$96.2	\$48.1	\$48.1	\$48.1	\$0.0	\$0.0	\$0.0			\$2,308.8													
De-mob cleanup composite crew,																							•																		
Operator, teamster, 4 laborers per																																									
crew, dump truck and one																																									
miscellaneous hoisting rig, estimated																											1														
miscellaneous hoisting rig, estimated 1 crew per quarter = one unit																																									
	\$148.2			0.2	0.5	0.3	0.3											0.2	0.3	0.3	0.5	1.0	2.0	3.0	0.5			9.1													

	Construction Inc	direc	ts																																								
	Handling, (includes double handling stored equipmanrt with a composit crew and maintenance and preservation of stored and other equipment)																																										
	Calendar Year		0	0	1			1	2			2	3			3	4			4	5			5	6			7			7	8			8	9			9	_			Base Lbr
WBS	Quarter		3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3 4	- 1	2	3	4	1	2	3	4	1	2	3	4	3 m	no/qrtr 15	58 hr/mo	\$x1000
	Description	Qrtrly Cost per unit	Start Site, 10-01	Excav PTB, 12-15	PTB Mat, 02-15 HLW Mat, 03-30	LAW Mat, 05-01				<u>,</u>				1					PTB Compl, 9-30		HLW Compl, 4-01		LAW Compl 8-30		Temp Facilities DeMob, 3.													<b>T</b>					
	Unload, re-load, unload with composite crew, Operator, Ironworker, teamster, Pipefitter and electrician, includes allowance for crane and truck (\$300/hr). Unit = 40 hrs/quarter. \$ x 1,000	\$19.7		1	1	2	2	З	3	2	2	1	1	1	1	1	1																										
	Material Handling Costs based on unit																																										
	costs above, \$ x 1,000			\$19.7	\$19.7	\$39.4	\$39.4	\$59.1	\$59.1	\$39.4	\$39.4	\$19.7	\$19.7	\$19.7	\$19.7	\$19.7	\$19.7	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0			\$433.4											_			
	maintenance of stored process plant equipment. Use composit crew, 2-																																										
	\$154.5/hr. Preservation and corrective maintenance costs = units x quaterly						1.0				2.0									2.5		1.5																					
	cost column, \$ x 1,000			\$0.0							\$160.7 \$															\$0.0			\$2,972.6														
				\$19.7	\$19.7	\$119.7	\$119.7	\$139.4	\$179.6	\$159.9	\$200.1 \$	180.4	\$180.4	\$260.7	\$260.7	\$260.7	\$260.7	\$241.0	\$241.0	\$200.9	\$160.7	7 \$120.	5 \$80.3	\$0.0	\$0.0	\$0.0			\$3,406.0														

OCCUON E. CONSTRUCTION	-																											$\top$
Acceptance Tests																												
Facilities and Services																												
(includes de-min water,																												
gases, training, factory test																												
techs, craft labor, etc.) Ref.																												
Sheet E-1																												
Sileet E-1																												
Calendar Year		0 0	1	1	2	2	3	2	3 4		4	E		5 6	6	7		7	8		8	9			9	Months	Hours	s E
Quarter		3 4					1	2 3 4				1 2		4 1		1 2		4	1 2	3	4	1	2	3	4		158 hr/m	
																	-											Ť
Description	Grade or Hourly Cost	Start Site, 10-01 Excav PTB, 12-15	PTB Mat, 02-15 HLW Mat, 03-30	LAW INIBI, 05-01						PTB Compl, 9-30		HLW Compl, 4-01	LAW Compl 8-30	Temp Facilities DeMob, 3-09		Total Quarterl units	Total y Quarterly Cost Hour	rs										
Construction Test Manager	18					1	1 1	1 1	1 1	1 1 1	1	1 1	l 1	1		1	4 \$583.6 7	7,280										
Hydro-test supervisors	16						1 1	1 1	1 1	1 1 1	1	1 1	1 1	1		1	3 \$431.9 6	6,760										
Piping Supt.	13							1 1	2 3	3 3 3	2	2 1	1 1	1		2	20 \$491.3 10	0,400										
pipe fitters	\$44.24							3 5	6 9	9 9 9	7	6 5	5 3	2		6	34 \$1,472.3 33	3,280										
Electrical Test supervisors	16						1 1	1 1	1 1	1 1 1	1	1 1	1 1	1		1	3 \$431.9 6	6,760										
Electrical superintendent	13							1 1	2 2	2 2 3	3	3 2	2 1	1		2	21 \$478.4 10	0,920										
Electricians	\$40.81							2 4	6 8	8 9 9	9	7 4	1 3	2		6	3 \$1,336.9 32	2,760										
HVAC Test Supervisors	16						1 1	1 1	1 1	1 1 1	1	1 1	1 1			1	2 \$398.7 6	6,240										
Mech. Superintendent	11							1 1	1 2	2 2 2	2	2 1	1 1			1	5 \$294.3 7	7,800										
Millwrights	\$34.73							2 3	4 4	4 6 6	6	6 4	1 4	2		4	7 \$848.8 24	4,440										
Sheetmetal Foreman	\$39.38							1 1	1 1	1 1 1	1	1 1	1 1	1		1	1 \$225.3 5	5,720										
Sheetmetal workers	\$37.88							2 2	4 4	4 5 6	6	4 3	3 2			3		9,760										
Scafolding Superintendent	11							1 1		1 1 1	1	1 1	1	1 .				6,240										
carpenter Foreman	\$34.98							1 1		2 2 3	3	3 2	2 1	1				0,920										
Carpenters	\$33.48							4 4		8 8 10	10	8 6		3				6,400										
Testing Safety Supervisor	16						1	1 1		1 1 1	1	1 1	1	1 .				6,760										
Testing Safety Engineer	14						'	2 3	- 1	3 4 4	4	4 3	3 2	1				7,160										
Testing QA/QC supervisor	16						1	1 1	- 1	1 1 1	1	1 1	1	1				6,240										
QA/QC Inspectors	13						1	2 2		3 3 3	3	2 2	2 1	1				3,520										
Piping Engineer	14						1	1 1		1 1 1	1	1 1	1	1				6,240										
Electrical Engineer	14						1	1 1		1 1 1	1	1 1	1	1				6,240										
Instrumentation & Control Engineer	14			1			1	1 1	- 1	1 1 1	1	1 1	1	1				6,240										
HVAC Engineer	14	I		1			1	1 1		1 1 1	1	1 1	1	1				6,240										
Fire Protection Engineer	14	I		1			1	1 1	- 1	1 1 1	1	1 1	1	1				6,240										
Fire Prot Factory Representative	\$70.00	I		1			1	1 1		1 1 1	1	1 1	1	1				5,720										
Melter Factory Representative	\$90.00							1	- 1	1 1 1	1	1 1	1	1				4,680										
Fluidics Factory Representative	\$70.00	1					1	1 1	- 1	1 1 1	1	1 1	1					5,720										
Manipulator Factory Representative	\$80.00	I		1			1	1 1		1 1 1	1	1 1						4,680										
Flush Water Process Unit	\$90.00	I		1				1 1		1 1 1	1	1 1	1					5,200										
Purge Gasses	\$10.00	I		1				1	- 1	1 1 1	1	1 1						4,160										
Equipment Set-up, LS, \$x 1,000	ψ10.00			1	1		1 .	\$10.0	1		1 1	Ή '			I			.,100										
																	\$10.0											

 Non-man
 158,080

 Manual
 172,640

 Total
 330,720

Control   Cont	ction E-1: Craft sting and Training																														
Cost per   Unit   Unit   Cost per   Unit   U					2	3		2			2			2				3			2				3		2 3		2		
es E-2 \$28.0 \$38.7 \$46.0 \$88.2 \$204.8 \$172.4 \$118.3 \$63.6 \$89.2 \$71.5 \$50.0 \$60.0 \$80.0 \$100.0 \$120.0 \$100.0 \$80.0 \$60.0 \$80.0 \$40.0 \$30.0 \$12.0 \$2.0 \$1,654.7 \$10.6 \$1,654.7 \$10.6 \$10.0	cription	Cost per		Cav P1B,	LAW Mat, 05-01										PTB Compl, 9-30		HLW Compl, 4-01	LAW Compl 8-30													
	s Drills, annual		\$2		\$18.7	7	\$66.1	\$111.1	\$125	5.3	\$122.5	\$10	4.6	\$88.2		\$55.2	\$27	.8						\$72	3.2						
			\$2	_															4 \$20.7	\$2.0	\$0.0	0	0								

Construction I	ndire	cts																																							
services, scheduled and casual overtime, "snow days" & shift differential.																																									
Calendar Year		0	0	1			1	2			2	3			3	4			4	5			5	6		6	7			7	8			8	9			9	Months	Hours	Base
Quarter	1	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2 :	3 4	1	2	3	4	1	2	3	4	1	2	3	4	3 mo/qrtr	158 hr/n	no \$x10
Description	Qrtrly Cost per unit	Start Site, 10-01	Excav PTB, 12-15	PTB Mat, 02-15 HLW Mat, 03-30	LAW Mat, 05-01													PTB Compl, 9-30		HLW Compl, 4-01		LAW Compl 8-30		Temp Facilities DeMob, 3-09																	
Total Quarterly ICME Craft Headcount			65	155	26	2 46	7 92	8 130	08 1558	3 1658	0 1750	1808	1718	1573	1468	1348	1237	1012	775	560	390	205	122	10	2																
Scheduled Overtime, use 2.5%	F-3	<b> </b>	15.0579	35 9073	60.6949		5 214.9				2 407.258			364.401 34			286.563 2	234.44	179.537	129.73	90.3474	70 6563		2.3166	0.69498			4746.25008													—
Total Quarterly ICME Craft Headcount			65	155	26	2 46							1718		1468	1348	1237	1012	775	560	390	305	122	10	3			11 1020000	-												
Casual Overtime, 2.5% Total Quarterly ICME Craft	E-3		\$15.1	\$35.9	\$60.		.2 \$215.				1 \$407.3			\$364.4 \$			\$286.6			\$129.7	*****	\$70.7	\$28.3	\$2.3	\$0.7			\$4,746.3													
Headcount  Weather related, snow days showup	E-3		65 \$4.6	155 \$11.0	263	2 46	57 92 \$66.			3 1658		1808 \$128.9	1718		1468	1348	1237	1012	775 \$55.2	\$39.9	390	305	122	10	3			\$725.1													
Total Quarterly ICME Craft Headcount			65	155	26	2 46							1718		1468	1348	1237	1012	775	560	390	305	122	10	3																
Shift Differential	E-3		\$0.6	\$1.4	\$2.	3 \$4	.1 \$8.	.1 \$11.	.4 \$13.6	6 \$14.4	4 \$15.3	\$15.7	\$15.0	\$13.7	\$12.8	\$11.7	\$10.8	\$8.8	\$6.8	\$4.9	\$3.4	\$2.7	\$1.1	\$0.1	\$0.0			\$178.5													

	Construction Inc	direc	ts																																
	Section F: Designer A/E Services (A/E costs to correct construction errors and oversight)	-																																	
	Calendar Year		0	0 1			1	2		2 3	3	3	4		4	5		5	6		6	7		7	8			8	9			9	Months	Hours	Base L
WBS	Quarter		3	4 1	2	3	4	1 2	3	4 1	1 2	3 4	1	2	3 4	1	2	3 4	1	2 3	3 4	1 2	3	4	1	2	3	4	1	2	3	4	3 mo/qrtr	158 hr/m	no \$x100
	Description  A/E Fisled Engineering Mgr. (18) Lead Civ-Struct-Arch Engr. (15) Civ-Struct-Arch Engr. (14) Civ-Struct-Arch Designer, (9) Lead Electrical Engineer, (16) Electrical Engineer, (16) Electrical Designer, (9) Lead Piping Engineer, (16) Piping Designer, (14) Piping Designer, (14) Piping Designer, (14) Mechanical Process Engineer, (16) Mechanical Process Engineer, (16) HVAC Engineer/Designer, (9) Lead Instr-Controls Engineer, (16) Instr-Controls Engineer, (14) Instr-Controls Designer, (3) A/E Proj. Engr. Administrator, (12) A/E Engineering Administrator, (7)		1 1 1 1 1 1 1	Mat at	05-01	1 1 3 2 1 1 1 1	2 1 1 1 1 1 1 1 1 1	2 1 2 1 1 2 1 1 1 1 1 1	1 1 3 3 2 2 1 1 1 2 3 1 2 2 1 1 1 1 1 1	1 2 2 1 3 2 1 2 2 1 1 1 1 1 1 2 2 1 1	2 2 1 1 3 3 3 2 2 1 1 1 1 2 2 1 1 1 1 1	1 2 2 1 1 1 3 3 1 2 2 1 1 1 1 2 3 1 1 2 2 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 3 3 3 2 2 2 2	2 1 3 2 2 1 1 2 2 1 1 3 3 1 3 3 3 3 3 3	3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,		of A/E	Total A/E Engineer Cost, \$ x 1,000 \$917.1 \$70.9 \$847.5 \$422.1 \$764.1 \$1,392.1 \$548.8 \$730.9 \$979.9 \$416.0 \$631.2 \$564.8 \$1,059.3 \$664.5 \$211.1 \$564.8 \$1,495												

Construction In	direc	cts																																										
Hiring Expense (computers, printers, office supplies, furniture, includes recruiting, presentation, travel,)																																												
Calendar Year		0	0	1				1	2			2	3		3	3	4			4	5			5	6			6	7				7	8			8	9			9	Months	Hours	Base
Quarter		3	4	1		2	3	4	1	2	3	4	1	2	3 4	1	1	2	3	4	1	2	3	4	1	2	3	4	1	2		3	4	1	2	3	4	1	2	3	4	3 mo/qrtr	158 hr/n	10 \$x10
Description	see sheet	Start Site, 10-01	Excav PTB, 12-15	PTB Mat, 02-15 HLW Mar 03-30		LAW Mat, 05-01													PTB Compl, 9-30		HLW Compl, 4-01		LAW Compl 8-30		Temp Facilities DeMob, 3- 09				0	roject Total Fi ffice and Hirin xpense														
Non manual staffing, total		109	13	39 1	81	196	230	255	279	296	317	335	345	353	354	344	338	317	290	246	209	175	145	93	56	3	4 5	5 2	2															
Computers @ 70% x quarterly new or additional staffing x \$5,000 each, \$ x 1,000	G-1	\$381.	\$105	i.O \$147	7.C \$4	52.5 \$	\$119.0    \$	\$87.5	\$84.0	\$59.5	\$73.5 \$	\$63.0	\$35.0	\$28.0	\$3.5															\$1,2	39.0													
Computer maintenance and service @ \$100 per computer per quarter, \$ x 1000	G-1	\$7.0	\$ \$9	.7 \$12	2.7 \$	13.7	\$16.1	\$17.9	\$19.5	\$20.7	\$22.2 \$	\$23.5	\$24.2	\$24.7	\$24.8 \$2	24.1	\$23.7	\$22.2	\$20.3	\$17.2	\$14.6	\$12.3	\$ \$10.2	\$6.5	\$3.9	\$2.	4 \$0.4	4 \$0.1	1	39	5.01													
Office Supplies, \$ x 1000	G-1	\$3.3	\$4	.2 \$5	5.4	\$5.9	\$6.9	\$7.7	\$8.4	\$8.9	\$9.5 \$	\$10.1	\$10.4	\$10.6	\$10.6 \$1	10.3	\$10.1	\$9.5	\$8.7	\$7.4	\$6.3	\$5.3	\$4.4	\$2.8	\$1.7	\$1.	0 \$0.2	2 \$0.1	1	16	9.29													
Office furniture Additional Office Furniture, \$ x 1,000	G-1 G-1	\$54.	\$15	.0 \$2°			\$17.0 \$32.4		\$12.0 \$32.4	\$8.5	\$10.5	\$9.0	\$5.0	\$4.0	\$0.5																177 29.5													
Computer Network Network Maintenance	G-1				\$2	50.0		250.0 \$20.0	\$20.0	\$20.0	\$20.0 \$	\$20.0	\$20.0	\$20.0	\$20.0 \$2	20.0	\$20.0	\$20.0	\$20.0	\$20.0	\$20.0	\$20.0	\$20.0	\$20.0	\$20.0	\$15.	0 \$10.0	0 \$5.0	0	\$41	500													
Reporduction Macines, \$ x 1,000 Reporduction support, \$ x 1,000	G-1					10.0									\$10.0 \$1	10.0	\$10.0	\$10.0	\$10.0	\$10.0	\$10.0	\$10.0	\$10.0	\$5.0						\$24 \$18														
Hiring Expense, \$ x 1,000	G-1	\$15.0	\$15	.0 \$7	'.5	\$7.5	\$7.5	\$7.5	\$7.5	\$7.5	\$7.5	\$7.5	\$5.0	\$2.5	\$2.5																							<u> </u>						
Total Field Office / Hiring Expense, \$ x 1,000		\$461.	\$148	.9 \$313	3.6 \$4	99.5	\$228.9 \$	445.4	\$193.8	\$135.1	\$153.2 \$1	143.0	\$109.5	\$99.8	\$71.9 \$6	64.4	\$63.8	\$61.7	\$59.0	\$54.6	\$50.9	\$47.5	\$44.5	\$34.3	\$25.6	\$18.	4 \$10.	5 \$5.2	2	\$3,54	1.80													

	Construction In	dire	cts																																					
	Section H: Home Office Support To Construction (travel, lodging, overheads, escalation, etc.)																																							
	Calendar Year		0	0	1			1	2		2	3			3	4			4	5			5	6		6	7		7	8			8	9			9	Month	s Hour	Base Lbr
WBS	Quarter		3	4	1	2	3	4	1	2	3 4	1	2	3	4	1	2	3	4	1	2	3	4	1	2 3	3 4	1 2	3	4	1	2	3	4	1	2	3	4	3 mo/q	rtr 158 hr/i	no \$x1000
	Description	Backup Sheet	Start Site, 10-01	Excav PTB, 12-15	PTB Mat, 02-15 HLW Mat, 03-30	LAW Mat, 05-01												PTB Compl, 9-30		HLW Compl, 4-01		LAW Compl 8:30		Temp Facilities DeMob, 3- 09			Total Project Home Office Support to Construction, \$ x 1,000													
	Annual Corporate Review, President/CEO, VP Construction, VP Engineering, \$x 1,000	H-1		\$3.1				\$3.1			\$3	3.1			\$3.1				\$3.1				\$3.1																	
	Annual QA/QC Audit, 6 person team, \$x 1,000 Annual ES&H Audit, 4 person	H-1				\$7.1				\$7.1			\$7.	1			\$7.1				\$7.1			\$7.1																
	team,\$ x 1,000  Annual Financial Audit, 5 person team, \$ x 1,000  Quarterly Review, 6 person team,\$ x 1,000	H-1 H-1 H-1		\$6.1	\$4.7 \$6.1	\$6.1	\$6.0 \$6.1	\$6.1	\$4.7 \$6.1	\$6.1	\$6.0 \$6.1 \$6		4.7 5.1 <b>\$</b> 6.	\$6.0 1 \$6.1		\$4.7 \$6.1	\$6.1	\$6.0 \$6.1	\$6.1	\$4.7 \$6.1	\$6.1	\$6.0 \$6.1	\$6.1	\$4.7 \$6.1	\$6.0 \$6.1															
	Total Home Office Support to Construction, \$ x 1,000			\$9.2	\$10.8	\$13.2	\$12.1	\$9.2			\$12.1 \$9						\$13.2	\$12.1	\$9.2	\$10.8	\$13.2	\$12.1	\$9.2	\$17.9	\$12.1		\$265.7													

	Construction In	dired	cts																																					
	Section I: Out of Pockets (relocation, household moves, misc.)	_																																						
	Calendar Year	r	0	0	1			1	2		2	3			3	4			4	5		:	5	6		6	7			7 8			8	9			9	Months	Hours Base	Lbr
WBS	Quarter		3	4	1	2	3	4	1	2	3 4	1	2	3	4	1	2	3 .	4	1	2 3		4	1	2 3	4	1 2		3	4 1	2	3	4	1	2	3	4 :	3 mo/qrtr	158 hr/mo \$x10	00
	Description	Qrtrly Cost per unit	Start Site, 10-01	Excav PTB, 12-15	PTB Mat, 02-15 HLW Mat, 03-30	LAW Mat, 05-01												PTB Compl, 9-30		HLW Compl, 4-01		LAW Compl 8-30	Temp Facilities DeMob, 3-	60			Total Out c Pocket Exp for relocation misc related	ense ons &												
	TOTAL PROJECT		100	120	10	100	230	255	270	200	247 220	245	353	354	244	338	317	290	246	209	175	145	03	FC	24 5	2	0													
	CONSTRUCTION NON-MANUAL 40% of quarterly additional staff		44	129	17	7 6	14	10	10	7	8 7	4	3	1	344	330	317	250	240	209	113	140	33	50	3 <del>1</del>   5	2	ч		<u> </u>				1		1				J	
	Quarterly Out of Pocket for relocation expense, \$ x 1,000	\$28.4	\$1,249.6	\$340.8	\$482.	\$170.4	\$397.6	\$284.0	\$284.0	\$198.8 \$	227.2 \$198.	\$113.6	\$85.2	\$28.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	0.0	\$0.0	\$0.0	\$0.0 \$0.0	\$0.0	\$0.0	\$4,061.2												